FLIR K40 / K50

Handheld thermal imaging cameras
for fire fighting applications

Fire attack

Search & rescue

Situational awareness

Hot spot identification

FLIR K-Series

Thermal imaging cameras for fire fighting applications

Every fire fighter knows the situation: you are on the way to a fire, you have been briefed, you are checking your gear. Once you arrive at the scene it is time to do your job. Attack that outbursting fire. In order to do this you need to go inside.

This is the time that you are relying on your gear and teammates.

This is the time that you are relying on your FLIR K-Series thermal imaging camera to protect your life and to save the lives of others.

FLIR K-Series thermal imaging cameras have been especially developed for the most demanding fire fighting tasks.

FLIR K-Series features

Extremely affordable: a thermal imaging camera in every fire fighting truck.
FLIR markets more thermal imaging cameras than any other manufacturer. Thanks to economies of scale FLIR Systems can market the FLIR K-Series at an extremely affordable price.

Robust & reliable
The K-series is designed to meet tough operating conditions. It withstands a drop from 2 meters on a concrete floor, is water resistant (IP67) and fully operating up to +260 °C / +500 °F (during 5 minutes).

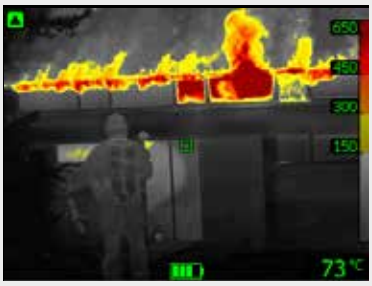
Clear and crisp thermal images
The maintenance free uncooled microbolometer sensor produces clear and detail rich images of 240 x 180 pixels (FLIR K40) or 320 x 240 pixels (FLIR K50). Thermal images are presented on a large bright 4" display helping you navigate and make quick and accurate decisions.

Easy-to-use, also for a gloved fire fighters hand
An intuitive and simple user interface allows you to focus on the job at hand. The FLIR K-Series can be controlled by 3 large buttons on top of the unit. Ideal for a gloved fire fighters hand.

Produce simple reports
Thermal images can be stored in the FLIR K-Series and later be used to produce simple reports of what happened at the scene.

Different color modes for every situation

TI Basic mode

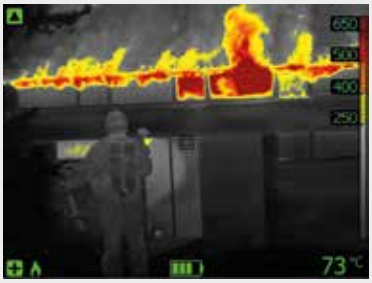


For initial fire attack and life rescuing operations.

Black and white fire fighting mode

Same as the TI Basic mode but a grey scale image.

Fire mode



For use in context with higher background temperatures. For example structural fires. Where there is already a lot of open flames and a high background temperature.

Search & rescue mode

For use in context with lower temperature. For example initial search and rescue operations. Search for people in landscapes, traffic accidents etc.

Heat detection mode

Used for finding hot spots. Items with a temperature above a value set by the operator will show up clearly in the thermal image.

Easy-to-use

Three large buttons allow to access all features.
Ideal for a glove fire fighters hand.

FLIR K-Series

Technical specifications

Camera specific

IMAGING AND OPTICAL DATA	K40	K50
IR resolution	240 x 180 pixels	320 × 240 pixels
Thermal sensitivity	40 mK	30 mK

General

IMAGING AND OPTICAL DATA	
Field of view (FOV) / focus	51° × 38° / fixed focus
Image frequency	60 Hz
Focus	Fixed
Zoom	2x, digital zoom
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 µm
Start-up time	< 17 sec. (IR-image, no GUI)
Start-up time from sleep mode	< 4 sec.

IMAGE PRESENTATION	
Display	4" LCD, 320 × 240 pixels, backlit
Image mode	IR image
Auto-range	Yes, mode dependent

MEASUREMENT	
Object temperature range	–20 °C to +150 °C / -4 °F to +302 °F 0 °C to +650 °C / 32 °F to +1,202 °F
Accuracy	±4°C or ±4% of reading for ambient temperature 10°C to 35°C / 50 °F to 95 °F

MEASUREMENT ANALYSIS	
Spotmeter	1
Isotherm	Yes, According to NFPA and mode dependent

SET-UP	
Color palettes	Multiple palettes, mode dependent
Regional adjustments	Units, date and time formats

DATA COMMUNICATION INTERFACES	
Interfaces	USB-mini
USB	USB Mini-B: Data transfer to and from PC / uncompressed colorized video

POWER SYSTEM	
Battery	Li Ion, 4 hours operating time
Charging system	2-bay charger, truck charger available
Charging time	2 h to 85% capacity, charging status indicated by LED's
Charging temperature	0 °C to +45 °C / 32 °F to 113 °F
Power management	Automatic shutdown and sleep mode

ENVIRONMENTAL DATA	
Designed to meet NFPA 1801 specification:	Vibration, impact acceleration resistance, corrosion, viewing surface abrasion, heat resistance, heat and flame, product label durability.
Operating temperature range	–20 °C to +85 °C / +260 °C during 5 min. -4 °F to +185 °F / +500 °F during 5 min.
Storage temperature range	–40 °C to +85 °C / -40 °F to +185 °F
Encapsulation	IP 67 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Drop	2.0 m / 6.6 ft., on concrete floor (IEC 60068-2-31)

PHYSICAL DATA	
Camera weight, incl. battery	<1,1 kg / 2.4lb
Camera size (L × W × H)	<120 × 125 × 280 mm / <4.7 x 4.9 x 11"
Tripod mounting	UNC ¼"-20

PACKAGING	
Packaging, contents	Hard transport case, thermal imaging camera, FLIR Tools software (scratchcard), power supply, incl. multi-plugs, battery (2x), battery charger, USB cable, retractable lanyard, strap lanyard, neck strap, tripod adapter, documentation

FLIR In-truck charger

The FLIR In-truck charger can be easily mounted inside of a fire fighting truck. Together with an extra battery, the FLIR K40/K50 is being charged while mounted in the charger. The FLIR in-truck charger has to be ordered as an optional accessory.

Optional accessories

- Extra battery
- Hard case
- Strap lanyard
- USB-cable
- In-truck charger
- Battery charger
- Retractable lanyard
- Neck strap
- Tripod adapter

YEAR 2 FULL PRODUCT WARRANTY*

YEAR 10 DETECTOR WARRANTY*

** After product registration on www.flir.com*

FLIR Commercial Systems
Luxemburgstraat 2
2321 Meer
Belgium
Tel. : +32 (0) 3665 5100
Fax : +32 (0) 3303 5624
E-mail: flir@flir.com

FLIR Systems USA
9 Townsend West
Nashua, NH 03063
USA
PH: +1 877.759.8164
PH: +1 603.324.7611

Asia Pacific Headquarters
HONG KONG
FLIR Systems Co. Ltd.
Room 1613 -16, Tower 2,
Grand Central Plaza,
No. 138 Shatin Rural
Committee Road,
Shatin, New Territories,
Hong Kong
Tel : +852 2792 8955
Fax : +852 2792 8952
E-mail : flir@flir.com.hk

www.flir.com

Your FLIR-distributor